

# Proposal 04: Student Alcohol Consumption

## 1 Objectives

The main goal of this EDA is to gather insights about the impact of alcohol on the performance of students with regards to grades, number of failed exams, etc.

## 2 Datasource

The data was obtained in a survey of students math and Portuguese language courses in secondary school. It contains social, gender and study information about students.

This can be put in use for trying to predict final grades, where correlation lie or other EDA use cases.

<https://www.kaggle.com/uciml/student-alcohol-consumption>

## 3 Research Questions?

- Does the consumption of alcohol have an impact on the performance of the students
- What are reasons for the students alcohol consumption?
- Can the final grade be accurately predicted with the existing data? Which are the relevant factors for such a prediction?
- Are there any differences between Math and Portuguese classes?

## 3b Hypothesis

- The higher the alcohol consumption, the lower the grades.
- Students with divorced parents perform poorly at school.
- Female students have generally better grades.
- There are more failed exams and lower grades in math classes.

## Final Conclusion

The negative effects of alcohol on the health are already well researched. However, the effects on the school performance of students are still unclear. The main objective of this project is to analyze the data to find out whether alcohol has a negative impact on the grades and if there are other relevant factors. Furthermore, it is a topic that affects most of you so we guess it would be interesting to get some new insights.